

## ABSTRACT

The invention provides for the generating of a corona or other electric discharge and provides for the passing of a gas through the corona to effect ionizing, creating of ozone or the like. The ionized gas, ozone, etc., may be used for various purposes, such as the disinfecting of water or some other material, the filtering of one material, such as iron, minerals, or other materials, from another or other function.

According to various methods of the invention, a corona discharge (or other electric discharge) is created, a gas is passed through the corona discharge; mixing of the gas may be provided by motionless mixing technique for one or more purposes, such as to assure maximum exposure of the gas to the corona discharge, to provide uniform temperature of the gas, to cool the corona generator, etc. According to one of the methods, too, a corona generator has an equivalent circuit of a plurality of capacitors, which may be charged in series and rapidly discharged in parallel.

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